Appendix 1B. Special Status Species Occurrences within the Project Area

			Status			Oc	curre	nce w	thin t	ne Pro	ject A	rea
					Associated Habitat and/or			S	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
PLANTS												
Large-flowered fiddleneck	Amsinckia grandiflora	E	Е	1B	Cismontane woodland, annual grassland in various soils; Apr-May	NL	NL	NL	NL	NL	NL	NL
Pallid manzanita	Arctostaphylos pallida	T	E	1B	Chaparral, Foothill Woodland, Mixed Evergreen Forest; Dec-Mar	NL	NL	NL	NL	NL	NL	NL
Tiburon paintbrush	Castilleja affinis ssp. neglecta	Е	T	1B	Serpentine soils in Marin, Napa, and Santa Clara counties; Apr-Jun	NL	NL	NL	NL	NL	NL	NL
Suisun thistle	Cirsium hydrophilum var. hydrophilum	E	-	1B	Tidal marsh and seasonal alkali marsh habitats in the vicinity of Suisun Bay and Grizzly Bay; July- Sept	Р	Р	Р	Р	NL	NL	NL
Soft bird's-beak	Cordylanthus mollis ssp. mollis	Е	R	1B	Brackish marsh, often found with Distichlis, Salicornia, Frankenia, etc.; July-Sept	Р	Р	Р	Р	NL	NL	NL
Palmate-bracted bird's- beak	Cordylanthus palmatus	Е	E	1B	Chenopod scrub, valley and foothill grassland on Pescadero or similar alkali soils; May-Oct	NL	NL	NL	Р	NL	NL	NL
Contra Costa wallflower	Erysimum capitatum ssp. angustatum	E	E	1B	Inland dunes; stabilized dunes of sand and clay near Antioch along San Joaquin River. Endemic to Contra Costa County; Mar-July	NL	NL	NL	NL	NL	NL	NL
Boggs Lake hedge- hyssop	Gratiola heterosepala	-	E	1B	Seasonal marsh, vernal pools	NL	NL	NL	Р	Р	Р	NL
Santa Cruz tarplant	Holocarpha macradenia	T	E	1B	Coastal prairie, grasslands; often clay; Jun-Oct	NL	NL	NL	NL	NL	NL	NL
Contra Costa goldfields	Lasthenia conjugens	E	-	1B	Cismontane woodland, alkaline playas, valley and foothill grassland, vernal pools; March-June	NL	Р	K	K	K	NL	NL
Mason's lilaeopsis	Lilaeopsis masonii	SC	R	1B	Freshwater and brackish marshes and riparian scrub, in muddy or silty soil formed through river deposition or river bank erosion; Apr-Oct	К	Р	Р	Р	NL	NL	NL
Few-flowered navarretia	Navarretia leucocephala spp. pauciflora	E	T	1B	Vernal pools on volcanic ash flows; elevation: 400-850 meters; May-June	NL	NL	NL	NL	NL	NL	NL
Colusa grass	Neostapfia colusana	T	Е	1B	Vernal pools; May-Aug	NL	NL	NL	Р	Р	Р	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	curre	nce wi	thin th	ne Pro	ject A	rea
					Associated Habitat and/or			S	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Antioch Dunes evening-primrose	Oenothera deltoides ssp. howellii	E	Е	1B	Interior dunes; river bluffs and sand dunes east of Antioch. Known only from Contra Costa and Sacramento Counties; March-Sept	NL	NL	NL	NL	NL	NL	NL
Rock sanicle	Sanicula saxatilis	SC	R	1B	Rocky soils in broadleaved upland forest and chaparral. Elevation: 620-1,175 meters	NL	NL	NL	NL	NL	NL	NL
Showy Indian clover	Trifolium amoenum	E	-	1B	Wet swales, grasslands and grassy hillsides; occasionally found on serpentine soils; Apr-Jun	NL	NL	NL	NL	NL	NL	NL
Solano grass	Tuctoria mucronata	E	E	1B	Large vernal pools and vernal lakes, valley and foothill grassland; Apr-Aug	NL	NL	NL	Р	Р	Р	NL
Mt. Diablo manzanita	Arctostaphylos auriculata	-	-	1B	Chaparral; Jan-Mar	NL	NL	NL	NL	NL	NL	NL
Contra Costa manzanita	Arctostaphylos manzanita spp. laevigata	-	-	1B	Chaparral; Jan-Feb	NL	NL	NL	NL	NL	NL	NL
Suisun Marsh aster	Aster lentus	SC	-	1B	Brackish and freshwater marshes, most often seen along sloughs with Phragmites, Scirpus, blackberry, Typha, etc. Endemic to the Sac/San Joaquin River Delta; Aug-Nov	Р	K	K	Р	NL	NL	NL
Ferris' milk-vetch	Astragalus tener var. ferrisiae	-	-	1B	Meadows and seeps, valley and foothill grassland areas; Apr-May	NL	Р	NL	Р	K	Р	NL
Alkali milk-vetch	Astragalus tener var. tener	-	-	1B	Playas, adobe clay grasslands, vernal pools; Mar-Jun	NL	Р	NL	Р	K	Р	NL
Heartscale	Atriplex cordulata	SC	-	1B	Chenopod scrub, valley and foothill grassland, meadows. Alkaline flats and scalds in the Central Valley, sandy soils; April-Oct	NL	Р	Р	Р	Р	Р	NL
Brittlescale	Atriplex depressa	-	-	1B	Chenopod scrub, playas, valley & foothill grassland, meadows, and vernal pools. Usually in alkali scalds or alkali clay in meadows or annual grassland; May-Oct	NL	Р	Р	Р	Р	Р	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	curre	nce wi	thin t	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
San Joaquin saltbush	Atriplex joaquiniana	SC	-	1B	Chenopod scrub, valley and foothill grassland, alkali meadows. In seasonal alkaline wetlands or alkali sink scrub with Distichlis spicata, Frankenia, etc; Apr-Sept	NL	Р	Р	Р	Р	Р	NL
Vernal pool smallscale	Atriplex persistens	SC	-	1B	Vernal pools on alkaline soils; Jul-Oct	NL	NL	Р	Р	Р	Р	NL
Big-scale balsamroot	Balsamorhiza macrolepis var. macrolepis	-	-	1B	Valley and foothill grassland, chaparral, cismontane woodland/ sometimes serpentine; March-June	NL	Р	Р	Р	Р	Р	NL
Big tarplant	Blepharizonia plumosa ssp. plumosa	-	-	1B	Dry hills and plains in annual grassland. Clay to clay loam soils; usually on slopes and often in burned areas; July-Oct	Р	Р	Р	Р	NL	NL	NL
Mt. Diablo fairy-lantern	Calochortus pulchellus	-	-	1B	Chaparral, cismontane woodland, riparian woodland, valley and foothill grassland; Apr-June	NL	NL	NL	NL	NL	NL	NL
Salt marsh owl's clover	Castilleja ambigua ssp. ambigua	SC	-	-	Coastal bluff, grassland; bloom period unknown	Р	Р	Р	Р	Р	Р	NL
Congdon's tarplant	Centromadia [Hemizonia] parryi ssp. congdonii	SC	-	1B	Valley and foothill grassland; June- Nov	Р	Р	Р	Р	Р	Р	NL
Hispid bird's beak	Cordylanthus mollis ssp. hispidus	SC	-	1B	Meadows and seeps, playas, valley and foothill grassland; Jun-Sep	Р	Р	Р	NL	NL	NL	NL
Mt. Diablo bird's-beak	Cordylanthus nidularius	SC	-	1B	Chaparral, coastal scrub, valley and foothill grassland; on dry exposed clay or sandy substrate; Apr-June	NL	NL	NL	NL	NL	NL	NL
Hospital canyon larkspur	Delphimium californicum ssp interius	-	-	1B	Chaparral, cismontane woodland; Apr-June	NL	NL	NL	NL	NL	NL	NL
Recurved larkspur	Delphinium recurvatum	SC	-	1B	Chenopod scrub, valley and foothill grassland, cismontane woodland. On alkaline soils; often in valley saltbush or valley chenopod scrub; Mar-May	Р	Р	Р	Р	Р	Р	NL
Western leatherwood	Dirca occidentalis	-	-	1B	Chaparral, cismontane woodland, coastal scrub; Mar-July	NL	NL	NL	NL	NL	NL	NL
Dwarf downingia	Downingia pusilla	-	-	2	Vernal pools in valley and foothill grasses; Mar- May	NL	Р	Р	Р	Р	Р	NL
Mt. Diablo buckwheat	Eriogonum truncatum	-	-	1A	Chaparral, coastal scrub, valley and foothill grasslands; Apr-Nov	NL	NL	NL	NL	NL	NL	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Ос	curre	nce w	ithin tl	ne Pro	ject A	rea
					Associated Habitat and/or			S	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Fragrant fritillary	Fritillaria liliacea	SC	-	1B	Coastal prairie, coastal scrub, grassland; often serpentinite; Feb-Apr	Р	Р	Р	Р	Р	Р	NL
Adobe lily	Fritillaria pluriflora	SC	-	1B	Chaparral, cismontane woodland, foothill grassland; Feb-Apr	NL	NL	NL	NL	NL	NL	NL
Diablo helianthella	Helianthella castanea	SC	-	1B	Broadleaved upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland; Apr-Jun	NL	Р	NL	NL	NL	NL	NL
Hogwallow starfish	Hesperevax caulescens	-	-	4	Moist clay soils associated with valley and foothill grasslands; Mar-Jun	NL	Р	Р	Р	K	Р	NL
Brewer's western flax	Hesperolinon breweri	SC	-	1B	Chaparral, cismontane woodland, and valley and foothill grassland; often in rocky serpentine soil in chaparral and grassland; May-July	NL	NL	NL	NL	NL	NL	NL
Rose-mallow	Hibiscus lasiocarpus	-	-	2	Moist, freshwater-soaked river banks and low peat islands in sloughs; in California, know from the Delta watershed; Aug-Sept	NL	Р	Р	Р	Р	Р	NL
Carquinez goldenbush	Isocoma arguta	SC	-	1B	Valley and foothill grassland in alkaline soils, flats, and lower hills. On benches near drainages and on tops and sides of mounds in swale habitat. Known only from Contra Costa and Solano Counties; Aug-Dec.	Р	Р	Р	Р	K	Р	NL
Northern California black walnut	Juglans hindsii	SC	-	1B	Riparian scrub and woodland; Apr- May	NL	NL	NL	NL	NL	Р	NL
Ahart's dwarf rush	Juncus leiospermus var. ahartii	SC	-	1B	Margins of vernal pools in valley and foothill grassland on east side of Sacramento Valley; March-May	NL	NL	NL	NL	NL	NL	NL
Delta tule pea	Lathyrus jepsonii var. jepsonii	SC	-	1B	Freshwater and brackish marshes, often found with Typha spp., Aster lentus, Rosa california, Juncus spp., and Scirpus spp. Usually on marsh and slough edges. Most of distribution limited to Sacramento/San Joaquin River Delta; May-June.	Р	Р	Р	Р	NL	NL	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	currer	nce wi	thin tl	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmer	nts		
<b>Common Name</b>	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Delta mudwort	Limosella subulata	-	-	2	Riparian scrub, freshwater marsh, brackish marsh; usually on mud banks of the Delta on marshy or scrubby riparian association, often with Lilaeopsis masonii; May-Aug	Р	Р	Р	Р	NL	NL	NL
Legenere	Legenere limosa	SC	-	1B	Vernal pools; April-June	NL	NL	NL	Р	Р	Р	NL
Heckard's pepper-grass	Lepidium latipes var. heckardii	-	-	1B	Valley and foothill grasslands; alkali; March-May	NL	Р	Р	Р	K	Р	NL
Showy madia	Madia radiata	-	-	1B	Valley and foothill grassland, cismontane woodland, chenopod scrub; mostly on adobe clay in grassland and among shrubs; Mar-May	Р	Р	Р	Р	Р	Р	NL
Hall's bush mallow	Malacothamnus hallii	-		1B	Chaparral, coastal scrub; May-Sept	NL	NL	NL	NL	NL	NL	NL
Little mousetail	Myosurus minimus ssp. apus	SC	-	3	Vernal pools and valley and foothill grassland; March-	NL	Р	Р	Р	Р	Р	NL
Mount Diablo phacelia	Phacelia phacelioides	SC	-	1B	Chaparral, cismontane woodland; Apr-May	NL	NL	NL	NL	NL	NL	NL
Bearded popcorn flower	Plagiobothrys hystriculus	-	-	1A	Valley and foothill grasslands, vernal pools; Apr-May	NL	NL	NL	NL	NL	NL	NL
Sanford's arrowhead	Sagittaria sanfordii	SC	-	1B	Freshwater marsh on east side of Central Valley; May-Oct	NL	NL	NL	NL	NL	NL	NL
Rayless ragwort	Senecio aphanactis	-	-	2	Chaparral, cismontane woodland, coastal scrub; Jan-Apr	NL	NL	NL	NL	NL	NL	NL
Most beautiful jewelflower	Streptanthus albidus ssp. peramoenus	SC	-	1B	Chaparral, grassland; sepentinite; Apr-Jun	NL	NL	NL	NL	NL	NL	NL
Mt. Diablo jewelflower	Streptanthus hispidus	-	-	1B	Chaparral, valley and foothill grassland; March-June	NL	NL	NL	NL	NL	NL	NL
Saline clover	Trifolium depauperatum var. hydrophilum	-	-	1B	Moist, alkaline soils associated with vernal pools and valley grasslands; Apr-Jun	Р	K	Р	Р	Р	Р	NL
Caper-fruited tropidocarpum	Tropidocarpum capparideum	SC	-	1A	Alkaline hills in valley and foothill grassland; Mar-Apr	NL	NL	NL	NL	NL	NL	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	curre	nce wi	thin tl	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
INVERTEBRATES												
Antioch Dunes anthicid beetle	Anthicus antiochensis	SC	-	NA	This species is associated with sand dunes and is only known to occur at Antioch Dunes near Antioch, Contra Costa County.	NL	NL	NL	NL	NL	NL	NL
Sacramento anthicid beetle	Anthicus sacramento	SC	-	NA	Sand dunes and sandbars within riparian areas of the Sacramento-San Joaquin Delta	NL	NL	NL	NL	NL	NL	NL
Midvalley fairy shrimp	Branchinecta mesovallensis	SC	-	NA	Vernal pools in grasslands in Sacramento, Solano, Contra Costa, Madera, Merced and Fresno Counties	Р	Р	Р	Р	K	Р	NL
California clam shrimp	Cyzicus californicus	-	-	NA	Vernal pools	Р	K	K	K	K	Р	NL
Ricksecker's water scavenger beetle	Hydrochara rickseckeri	SC	-	NA	Freshwater habitats, restricted to the San Francisco Bay Area	Р	Р	Р	Р	NL	NL	NL
Curved-foot hygrotus diving beetle	Hygrotus curvipes	SC	-	NA	Shallow water pools; known only from a shallow muddy pool in Oakley, Contra Costa County.	NL	NL	NL	NL	NL	NL	NL
California linderiella	Linderiella occidentalis	SC	-	NA	Vernal pools	K	K	K	K	K	K	NL
San Francisco lacewing	Nothochrysa californica	SC	-	NA	Freshwater streams	Р	Р	Р	Р	NL	NL	NL
Conservancy fairy shrimp	Branchinecta conservatio	E	-	NA	Found in large, turbid pools in the northern 2/3 or the Central Valley, inhabit astatic pools located in swales formed by old, braided alluvium, filled by winter/spring rains, until June.	NL	NL	NL	Р	Р	Р	NL
Longhorn fairy shrimp	Branchinecta Iongiantenna	Е	-	NA	Vernal pools and swales	Р	Р	Р	Р	NL	NL	NL
Vernal pool fairy shrimp	Branchinecta lynchi	Т	-	NA	Vernal pools	Р	Р	Р	K	K	Р	NL
Valley elderberry longhorn beetle	Desmocerus californicus dimorphus	T	-	NA	Elderberry shrubs	Р	Р	К	Р	Р	Р	Р
Delta green ground beetle	Elaphrus viridis	Т	-	NA	Margins of vernal pools in grassland areas between Jepson prairie and Travis AFB.	NL	NL	NL	Р	Р	NL	NL
Vernal pool tadpole shrimp	Lepidurus packardi	E	-	NA	Seasonal pools in unplowed grassland with old alluvial soils underlain by hardpan or in sandstone depressions	Р	Р	Р	K	K	Р	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Ос	currer	nce wi	thin th	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmen	its		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Callippe silverspot butterfly	Speyeria callippe callippe	Е	-	NA	Grassy hillsides, chaparral, and oak woodland with native forbs; host plant a native violet (Viola pedunculata)	NL	NL	NL	NL	NL	NL	NL
California freshwater shrimp	Syncaris pacifica	Е	E	NA	Low elevation streams with moderate to heavy riparian cover. Endemic to Marin, Napa, and Sonoma Counties.	NL	NL	NL	NL	NL	NL	NL
AMPHIBIANS												
California red-legged frog	Rana aurora draytonii	Т	SC	NA	Lowlands and foothills with deep water remaining for at least 11 weeks; water source is usually associated with abundant emergent and/or shoreline vegetation	Р	Р	Р	NL	NL	NL	NL
Foothill yellow-legged frog	Rana boylii	SC	SC	NA	Partly shaded, shallow streams and riffles with cobble size or larger rocky substrate; mostly in foothills	NL	NL	NL	NL	NL	NL	NL
Western spadefoot	Scaphiopus hammondii	SC	SC	NA	Quiet streams and temporary pools in grassland, open chaparral, and pine-oak woodlands	Р	Р	Р	Р	Р	Р	NL
California tiger salamander	Ambystoma californiense	С	SC	NA	Annual grassland and valley-foothill hardwood habitats, vernal pools and other seasonal water sources adjacent to underground refuges.	Р	Р	Р	Р	Р	Р	NL
REPTILES												
Western pond turtle	Clemmys marmorata marmorata	SC	SC	NA	Permanent or nearly permanent water in a variety of habitats, need basking sites such as partially submerged logs or rocks and suitable upland habitat for egg laying.	Р	K	P	Р	К	Р	NL
Silvery legless lizard	Anniella pulchra pulchra	SC	SC	NA	Found primarily in areas with sandy or loose organic soils or where there is plenty of leaf litter	NL	NL	NL	NL	NL	NL	NL
California horned lizard	Phrynosoma coronatum frontale	SC	SC	NA	Inhabits open country, especially sandy areas, washes, flood plains and wind-blown deposits in a wide variety of habitats	NL	NL	NL	NL	NL	NL	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	currer	nce wi	thin tl	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Alameda whipsnake	Masticophis lateralis euryxanthus	T	T	NA	Valley-foothill hardwood habitat of the coast between North San Francisco Bay and Monterey	NL	NL	NL	NL	NL	NL	NL
Giant garter snake	Thamnophis gigas	T	T	NA	Freshwater marsh, streams, drainage canals, irrigation ditches	NL	NL	NL	Р	K	Р	NL
FISH												
Delta Smelt	Hypomesus transpacificus	T	Т	NA	Sacramento-San Joaquin Delta, Suisun Bay, San Pablo Bay, river channels and sloughs	K	Р	Р	Р	NL	NL	NL
Green sturgeon	Acipenser medirostris	SC	SC	NA	Rivers and estuaries	K	NL	NL	NL	NL	NL	NL
River lamprey	Lampetra ayresi	SC	SC	NA	San Joaquin-Sacramento Delta and northward, including the Sacramento River	K	Р	Р	Р	Р	Р	NL
Pacific lamprey	Lampetra tridentata	SC	-	NA	Estuaries, rivers and creeks with fine gravel substrates	K	Р	Р	Р	Р	Р	NL
Longfin smelt	Spirinchus thaleichthys	SC	SC	NA	Moderately saline estuaries and lower reaches of rivers	K	Р	Р	Р	NL	NL	NL
Central Valley steelhead	Oncorhynchus mykiss	T	SC	NA	Delta, Suisun Bay and associated marshes, San Francisco Bay west to the Golden Gate bridge is designated as suitable habitat.	K	P	Р	Р	Р	Р	NL
Sacramento River Winter-Run Chinook Salmon	Oncorhynchus tshawytscha	E	E	NA	Sacramento River from Keswick Dam (near Redding) south to Chipps Island, then west through Carquinez Strait, San Pablo Bay and San Francisco Bay	K	Р	Р	Р	Р	Р	NL
Central Valley Spring- Run Chinook Salmon	Oncorhynchus tshawytscha	T, PE	T	NA	Central Valley rivers and their tributaries, west to the Pacific Ocean	K	Р	Р	Р	Р	Р	NL
Central Valley Fall/Late-Fall Chinook Salmon	Oncorhynchus tshawytscha	С	SC	NA	Central Valley rivers and their tributaries, west to the Pacific Ocean	K	Р	Р	Р	Р	Р	NL
Sacramento Splittail	Pogonichthys macrolepidotus	T	SC	NA	Fresh water from lower Sacramento and San Joaquin rivers down to Montezuma Slough (may extend to the mouth of Napa River at San Pablo Bay)	K	Р	Р	Р	NL	K	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	curre	nce wi	thin tl	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
BIRDS												
California brown pelican	Pelecanus occidentalis	Е	E, FP	NA	Nests on coastal islands, lacking ground predators; roost on piers, bouys and other structures	NL	NL	NL	NL	NL	NL	NL
Aleutian Canada goose	Branta canadensis leucopareia	D	-	NA	Do not nest in California. Winter habitat includes agricultural croplands and pastures.	NL	Р	Р	Р	Р	Р	NL
White-faced ibis	Plegadis chihi	SC	SC	NA	Nests in a few isolated areas within the Central Valley; places nests within dense stands of fresh water emergent vegetation near shallow water or muddy fields for foraging; winters mainly in the San Joaquin Valley and Imperial Valley.	NL	NL	P	Р	P	Р	NL
Greater sandhill crane	Grus canadensis tabida	-	T, FP	NA	Breeds in northern California plateau. Winters in low elevation wetlands and agricultural land	NL	NL	NL	NL	Р	Р	NL
Bald Eagle	Haliaeetus leucocephalus	PD	E, FP	NA	Seacoast, islands, sea cliffs, large lakes, large rivers, coastal lagoons	Р	Р	Р	Р	Р	Р	NL
Ferruginous hawk	Buteo regalis	SC	SC	NA	Undisturbed grassland and agricultural areas (winter)	NL	NL	NL	Р	Р	Р	NL
Northern harrier	Circus cyaneus	-	SC	NA	Nests and forages in salt marsh, freshwater marsh, and grassland habitats.	Р	Р	Р	Р	Р	Р	NL
White-tailed kite	Elanus leucurus	SC	FP	NA	Nests among dense-topped trees; forages in open grasslands, meadows or marshes	Р	Р	Р	Р	K	Р	NL
American peregrine falcon	Falco peregrinus anatum	D	E	NA	Nests on cliff ledges, particularly near shores and marshes	Р	Р	Р	NL	NL	Р	NL
Swainson's hawk	Buteo swainsoni	-	T	NA	Nests in the Central Valley within riparian areas and oak woodlands as well as isolated roadside trees close to grassland or agricultural foraging habitat; winters in Mexico, Central and South America.	NL	NL	NL	Р	K	K	Р

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	currer	nce wi	thin th	ne Pro	ject A	rea
					Associated Habitat and/or			S	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Western snowy plover	Charadrius alexandrinus nivosus	Т	-	NA	Sandy coastal beaches, salt pans, coastal dredges spoils sites, dry salt ponds, salt pond levees	NL	NL	NL	NL	NL	NL	NL
Mountain plover	Charadrius montanus	PT	-	NA	Winters primarily within the Central and Imperial Valleys of California within cultivated fields and grasslands.	NL	NL	Р	Р	Р	Р	NL
Long-billed curlew	Numenius americanus	SC	SC	NA	Intertidal mudflats of large estuaries, upland herbaceous areas, and cropland (winter)	Р	Р	Р	Р	NL	NL	NL
Black tern	Chlidonias niger	SC	SC	NA	Nests near freshwater lakes, ponds, marshes and flooded agricultural fields; at coastal lagoons and estuaries during migration.	NL	NL	Р	Р	Р	Р	NL
California black rail	Laterallus jamaicensis coturniculus	SC	T, FP	NA	Tidal salt marshes, freshwater and brackish marshes.	Р	Р	Р	Р	NL	NL	NL
California clapper rail	Rallus longirostris obsoletus	Е	E, FP	NA	Salt marshes dominated by pickleweed and cord grass	K	Р	Р	Р	NL	NL	NL
Lewis' woodpecker	Melanerpes lewis	SC	-	NA	Open pine-oak woodlands, coniferous forests, and riparian woodlands.  Prefers burned and logged woodlands.	NL	NL	NL	NL	NL	NL	NL
Black swift	Cypseloides niger	SC	SC	NA	Mountains and coastal cliffs	NL	NL	NL	NL	NL	NL	NL
Bank swallow	Riparia riparia	SC	T	NA	Riparian vegetation, vertical banks or cliffs near streams, rivers, lakes, and oceans	NL	NL	NL	NL	NL	Р	NL
California least tern	Sterna antillarum	E	E	NA	Nests in flat, open areas along the coast near inshore estuaries, river mouths, or shallows, sandy ground with little or no vegetation, bays, freshwater ponds, channels, lakes. Closest known nesting colony is located at the Pittsburg PG&E plant (Goals Project 2000).	Р	NL	P	Р	NL	NL	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	curre	nce wi	thin th	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmer	nts		
<b>Common Name</b>	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Western burrowing owl	Athene cunicularia	SC	-	NA	Short-grass prairie and open space; associated with burrowing mammals such as ground squirrels	Р	Р	Р	K	K	K	Р
Short-eared owl	Asio flammeus	SC	SC	NA	Meadows, grasslands, wetlands, irrigated land	Р	Р	Р	Р	Р	Р	NL
Northern spotted owl	Strix occidentalis caurina	T	SC	NA	Old-growth forests or mixed stands of old-growth and mature trees.	NL	NL	NL	NL	NL	NL	NL
Vaux's swift	Chaetura vauxi	SC	SC	NA	Redwood and Douglas fir forests with hollow trees and snags	NL	NL	NL	NL	NL	NL	NL
Western yellow-billed cuckoo	Coccyzus americanus occidentalis	-	Е	NA	Nests in riparian forest, along broad, lower flood bottoms of large river systems.	NL	NL	NL	NL	Р	Р	NL
California thrasher	Toxostoma redivivum	SC	-	NA	Chaparral vegetation along coast and foothills	NL	NL	NL	NL	NL	NL	NL
Rufous hummingbird	Selasphorus rufus	SC	-	NA	Valley and foothill woodland, hardwood-conifer forest, riparian woodland, and chaparral during migration	NL	NL	NL	NL	NL	NL	NL
Allen's hummingbird	Selasphorus sasin	SC	-	NA	Brushy slopes, chaparral, thickets and open coniferous forests	NL	NL	NL	NL	NL	NL	NL
Costa's hummingbird	Calypte costae	SC	-	NA	Desert scrub	NL	NL	NL	NL	NL	NL	NL
Loggerhead shrike	Lanius Iudovicianus	SC	SC	NA	Open canopied valley and foothill hardwood, riparian; urban areas	Р	Р	Р	Р	Р	Р	NL
Little willow flycatcher	Empidonax trailii brewsteri	-	E	NA	Riparian habitat, dense willow thickets edging wet meadows or ponds (not specific to subspecies)	NL	NL	NL	NL	Р	Р	NL
Saltmarsh common yellowthroat	Geothylpis trichas sinuosa	-	SC	NA	San Francisco Bay region in fresh and saltwater marshes with thick continuous cover to water surface, tall grasses, tule patches and willows for nesting.	Р	Р	Р	Р	NL	NL	NL
Tricolored blackbird	Agelaius tricolor	SC	SC	NA	Open valleys and foothills in streamside timber, alfalfa and rice fields, blackberry thickets, tules and cattails on and around marshes and reservoirs	Р	Р	Р	Р	Р	Р	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

			Status			Oc	curre	nce wi	thin tl	ne Pro	ject A	rea
					Associated Habitat and/or			Se	egmer	nts		
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
Grasshopper sparrow	Ammadramus savannarum	SC	-	NA	Grasslands, meadows, fields, pastures	Р	Р	Р	Р	Р	Р	NL
Suisun song sparrow	Melospiza melodia maxillaris	SC	SC	NA	Intermixed stands of bulrush (Scirpus spp.), cattail (Typha spp.), and other emergent vegetation	K	K	Р	Р	NL	NL	NL
San Pablo song sparrow	Melospiza melodia samuelis	SC	SC	NA	Intermixed stands of bulrush (Scirpus spp.), cattail (Typha spp.), and other emergent vegetation IN San Pablo Bay	NL	NL	NL	NL	NL	NL	NL
Lawrence's goldfinch	Carduelis lawrencei	SC	-	NA	Valley foothill hardwood, valley foothill hardwood-conifer	NL	Р	NL	NL	NL	NL	NL
MAMMALS												
Pacific western big- eared bat	Corynorhinus townsendii townsendii	SC	SC	NA	Humid coastal regions; roosts include caves, mines, buildings, swallow nests, and under bridges	NL	NL	NL	NL	NL	NL	NL
Greater western mastiff bat	Eumops perotis californicus	SC	SC	NA	chaparral-type areas with rock walls and low-growing vegetation, or trees	NL	NL	NL	NL	NL	NL	NL
Small-footed myotis bat	Myotis ciliolabrum	SC	-	NA	Arid woody or brushy uplands, near water, west and east sides of Sierra Nevada	NL	NL	NL	NL	NL	NL	NL
Long-eared myotis bat	Myotis evotis	SC	-	NA	Brush, woodland and forest habitats; widespread in California, but avoids the arid Central Valley and hot deserts.	NL	NL	NL	NL	NL	NL	NL
Fringed myotis bat	Myotis thysanodes	SC	-	NA	Piñon-juniper forest, valley and foothill hardwood woodlands and hardwood-conifer forest	NL	NL	NL	NL	NL	NL	NL
Long-legged myotis bat	Myotis volans	SC	-	NA	Woodlands, forests, chaparral, coastal scrub	NL	NL	NL	NL	NL	NL	NL
Yuma myotis bat	Myotis yumanensis	SC	SC	NA	Open forests and woodlands near water	Р	Р	Р	Р	Р	Р	Р
San Francisco dusky- footed woodrat	Neotoma fuscipes annectens	SC	SC	NA	Riparian woodland, hardwood forest, chaparral (not specific to subspecies)	NL	NL	NL	NL	NL	NL	NL
Suisun ornate shrew	Sorex ornatus sinuosus	SC	SC	NA	Tidal marshes of the northern shores of San Pablo and Suisun Bays.	K	K	К	Р	NL	NL	NL

Appendix 1B. Special Status Species Occurrences within the Project Area (cont.)

		Status				Occurrence within the Project Area						
					Associated Habitat and/or	Segments						
Common Name	Scientific Name	Federal	State	CNPS	Flowering Period	1	2	3	4	5	6	7
San Joaquin pocket mouse	Perognathus inornatus inornatus	SC	-	NA	Grasslands and blue oak savannas	K	Р	Р	Р	K	Р	NL
Riparian woodrat	Neotoma fuscipes riparia	E	SC	NA	Brushy habitats with scattered trees; only verified population today is along the Stanislaus River	NL	NL	NL	NL	NL	NL	NL
Salt marsh harvest mouse	Reithrodontomys raviventris	E	E, FP	NA	Coastal salt marsh, dense stands of pickleweed	K	K	K	Р	NL	NL	NL
Riparian brush rabbit	Sylvilagus bachmani riparius	E	E	NA	Valley riparian forest, brushy riparian vegetation; the largest remaining fragment of habitat and only extant population are found along the Stanislaus River	NL	NL	NL	NL	NL	NL	NL

Source: URS, 2002c and 2002d.

## NOTES:

Occurrence within the Project Area

NL = Not Likely to Occur, Not considered in EIR

P = Potential to Occur

K = Known to Occur

Federal Status Codes:

E = Endangered. Species in danger of extinction throughout all or a significant portion of its range.

T = Threatened. Species likely to become endangered within the foreseeable future.

PE = Proposed for listing as endangered.

PT = Proposed for listing as threatened.

PD = Proposed for delisting.

C = Candidate for listing.

SC = USFWS Species of Concern (an informal designation)

## California Status Codes:

E = Endangered. Species whose continued existence in California is in jeopardy

T = Threatened. Species likely to become endangered within the foreseeable future.

R = Rare. Plant species, although not presently threatened with extinction, that may become endangered in the foreseeable future.

FP = Fully protected under the California Fish and Game Code

SC = Species of Special Concern

## California Native Plant Society Status Codes (CNPS 2001):

1A = Plants presumed extinct in California

1B = Plants that are rare, threatened or endangered in California and elsewhere.

2 = Plants that are rare, threatened or endangered in California, but more common elsewhere.

3 = Plants about which more information is needed.

4 = Plants of limited distribution

NA = Not Applicable